



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

.....

Applicants:	Bhat, <i>et al.</i>	.
Patent No.:	7,125,855 B2	.
Issue date:	October 24, 2006	.
Serial No.:	10/688,691 (Case No. 20717YCA)	.
		Art Unit:
		1623
		Examiner:
		L.E. Crane
Filing Date:	17 October 2003	.
Entitled:	NUCLEOSIDE DERIVATIVES AS INHIBITORS OF RNA-DEPENDENT RNA VIRAL POLYMERASE	.

.....

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

11/14/2006 MBIZUNES 00000001 132755 7125855
01 FC:1464 130.00 DA
02 FC:1811 100.00 DA

REQUEST FOR SUSPENSION OF RULES UNDER 37 C.F.R. 1.183

Sir:

This petition is made pursuant to 37 C.F.R. 1.183 for waiver of 37 C.F.R. 3.81(a) to permit the correct name of the assignee to be provided after issuance of the patent. A Request for Certification of Correction of Patent under 37 C.F.R. 1.323 is filed herewith to effect this correction.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, on the date appearing below.

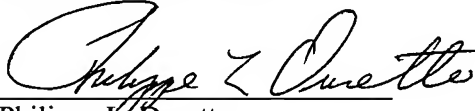
MERCK & CO., INC.

By Pamela Spalding Date 11-9-06

Petitioners submit that the failure to include the correct assignee name on the PTOL-85B was inadvertent. Copies of the Recordation Form Cover Sheets and accompanying Assignment Documents are enclosed herewith (Reel/Frame Nos: 014753/0161 and 014753/0192, recordation date December 4, 2003), along with the petition fee required by 37 C.F.R. 1.17(h).

Applicants hereby make a Conditional Petition for any relief available to correct any defect in connection with this filing, or any defect remaining in this application after this filing. The Commissioner is authorized to charge deposit account fee and any other fee(s) required to effect this Conditional Petition.

Respectfully submitted,

By 
Philippe L. Durette
Reg. No. 35,125
Attorney for the Applicants
Merck & Co., Inc.
P.O. Box 2000
Rahway, New Jersey 07065-0907
(732)-594-4568

Date: November 9, 2006
Enclosures



20717X

UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JUNE 21, 2004

MERCK & CO., INC.
PHILIPPE L. DURETTE
PATENT DEPARTMENT
P.O. BOX 2000
RAHWAY, N.J. 07065-0907

PTAS DOCKETED

JUN 29 2004

KATHY KLUTKOWSKI



102617073A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/04/2003

REEL/FRAME: 014753/0161
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 20717Y

ASSIGNOR:
CARROLL, STEVEN S.

DOC DATE: 12/19/2001

ASSIGNOR:
MACCOSS, MALCOLM

DOC DATE: 01/09/2002

ASSIGNOR:
OLSEN, DAVID B.

DOC DATE: 01/09/2002

ASSIGNEE:
MERCK & CO., INC.
P.O. BOX 2000
RY60-30
RAHWAY, NEW JERSEY 07065-0907

014753/0161 PAGE 2

SERIAL NUMBER: 10052318

FILING DATE: 01/18/2002

PATENT NUMBER:

ISSUE DATE:

TITLE: NUCLEOSIDE DERIVATIVES AS INHIBITORS OF RNA-DEPENDENT RNA VIRAL
POLYMERASE

STEVEN POST, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

P62



207174

UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JUNE 21, 2004

MERCK & CO., INC.
PHILIPPE L. DURETTE
PATENT DEPARTMENT
P.O. BOX 2000 -- RY60-30
RAHWAY, N.J. 07065-0907

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102617072A

JUN 29 2004

KATHY KLUTKOWSKI

UNITED STATES PATENT AND TRADEMARK OFFICE
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RECORDATION DATE: 12/04/2003

REEL/FRAME: 014753/0192

NUMBER OF PAGES: 10

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

BHAT, BALKRISHEN

DOC DATE: 01/18/2002

ASSIGNOR:

BHAT, NEELIMA

DOC DATE: 01/18/2002

ASSIGNOR:

COOK, PHILLIP DAN

DOC DATE: 01/18/2002

ASSIGNOR:

ELDRUP, ANNE B.

DOC DATE: 01/18/2002

ASSIGNOR:

PRAKASH, THAZHA P.

DOC DATE: 01/18/2002

ASSIGNOR:

PRHAVC, MARIJA

DOC DATE: 01/18/2002

014753/0192 PAGE 2

ASSIGNOR:
SONG, QUANLAI

DOC DATE: 01/18/2002

ASSIGNEE:
ISIS PHARMACEUTICALS, INC.
2292 FARADAY AVENUE
CARLSBAD, CALIFORNIA 92008

SERIAL NUMBER: 10052318

FILING DATE: 01/18/2002

PATENT NUMBER:

ISSUE DATE:

TITLE: NUCLEOSIDE DERIVATIVES AS INHIBITORS OF RNA-DEPENDENT RNA VIRAL
POLYMERASE

MARY BENTON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

RECORDATION FORM COVER SHEET
PATENTS ONLY

TO THE DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE:
PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

1. Name(s) of Conveying party(ies):

Steven S. Carroll, Malcolm MacCoss, David B. Olsen

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

2. Nature of conveyance:

- ☒ Assignment
☐ Merger
☐ Security Agreement
☐ Change of Name
☐ Other:



3. Name and address of receiving party(ies):

Name: MERCK & Co., INC.

Internal Address: RY60-30

Street Address: P.O. Box 2000

City & State: RAHWAY, NEW JERSEY

Zip/Postal Code: 07065-0907

Execution Date: Dec 19, 2001 Jan 9, 2002

Additional name(s) &
addresses attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s) are as follows:

(a) Patent Application No(s). 10/052,318, filed on January 18, 2002

and titled:

NUCLEOSIDE DERIVATIVES AS INHIBITORS OF RNA-DEPENDENT RNA VIRAL POLYMERASE

(b) If this document is being filed together with a new application, the execution date of the application is:

Additional numbers attached? ☐ Yes ☐ No

5. Name & address of party to whom correspondence concerning documents should be mailed:

Name: Philippe L. Durette

Internal Address: PATENT DEPARTMENT

MERCK & CO., INC.

P.O. BOX 2000 -- RY60-30

City & State: RAHWAY, N.J. Zip: 07065-0907

6. Total no. of applications & patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

☐ Enclosed

☒ The Director is hereby authorized to charge deposit account number 13-2755 for any fees which may be required or to credit any overpayment.

DO NOT USE THIS SPACE

8. Statement and signature:

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Philippe L. Durette Reg. No. 35,125

Name of Person Signing

Signature

Dec 2, 2003

Date

Total number of pages including cover sheet, attachments, and documents: 3

NOTE: Send to Mail Stop Assignment, Recordation Services

CERTIFICATE OF MAILING OR FACSIMILE TRANSMISSION			
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Director of the U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450, or facsimile transmitted to the U.S. Patent and Trademark Office on:			
Name (Print/Type)	Denise K. Brown		
Signature	<u>Denise K. Brown</u>	Date	12/2/2003

DOCKETED
DEC 04 2003
LORISCHEPISI

P&T OFFICE ACKNOWLEDGEMENT

ATTORNEY P. L. Durette		DATE 12-2-2003
CASE NUMBER/ 20717Y	SERIAL NUMBER 10/052,318	
DATE FILED January 18, 2002		
APPLICANT Bhat, et al.		
EXPRESS MAIL NO.		

The Patent & Trademark Office acknowledges, and has stamped hereon, the date of the receipt of the items checked below:

- ☐ AMENDMENT
- ☐ APPEAL AND FEE
- ☒ ASSIGNMENT *+ Recordal Form - Merck*
- ☐ BRIEF
- ☐ CERTIFICATE OF CORRECTION
- ☐ FINAL FEE
- ☐ LETTER
- ☐ REQUEST FOR F.F. LICENSE
- ☐ INFORMATION DISCLOSURE STATEMENT
- ☐ PTO 1449 & REFERENCES
- ☐ PETITION FOR EXTENSION OF TIME & FEE
- ☐ INVITATION TO CORRECT
- ☐ DEMAND-CHAPTER II & FEE SHEET

ASSIGNMENT AND AGREEMENT

For value received, we, Steven S. Carroll, Malcolm Maccoss, David B. Olsen

of 479 Robins Court, Yardley, PA 19067; 48 Rose Court, Freehold, NJ 07728; 1640 Quarry Road, Lansdale, PA 19446

hereby sell, assign and transfer to MERCK & CO., Inc., a corporation of the State of New Jersey, having an office at Lincoln Avenue, City of Rahway, State of New Jersey, and its successors, assigns and legal representatives, the entire right, title and interest, for all countries, in and to certain inventions relating to

NUCLEOSIDE DERIVATIVES AS INHIBITORS OF RNA-DEPENDENT RNA VIRAL POLYMERASE

described in an application for Letters Patent of the United States, executed by us on even date herewith; in provisional application(s) Serial No. 60/263,313 filed on 1/22/2001; Serial No. 60/282,069 filed on 4/6/2001; Serial No. 60/299,320 filed on 6/19/2001; Serial No. 60/344,528 filed on 10/25/2001 (if applicable), and all the rights and privileges, including any and all benefits under the International Convention for the Protection of Industrial Property under any and all Letters Patents which may be granted therefor in any country or region, and under any and all extensions, divisionals, reissues and continuations of said Letters Patents.

We request that any and all Patents for said inventions be issued to said assignee, its successor, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining Patents for said inventions in any and all countries and for vesting title thereto in said assignee, its successors, assigns and legal representatives or nominees.

We covenant with said assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

We hereby authorize our attorney, Philippe L. Durette, or an attorney with Power of Attorney in this application, of MERCK & CO., Inc., to insert Serial No., and Filing Date of said application(s) when known.

Signed at West Point Pennsylvania, this 9th day of January, 2002 B.M.

Steven S. Carroll
Steven S. Carroll

David B. Olsen
David B. Olsen

INT Merck Case 20717Y

U.S. Serial No. 10/052,318

Filing Date 1/18/2002

ASSIGNMENT AND AGREEMENT

Signed at Rahway, New Jersey this 19th day of December, 2001.

Malcolm Maccoss

Malcolm Maccoss

STATE OF NEW JERSEY

~~COMMONWEALTH OF PENNSYLVANIA~~ ^{B.M.}

County of ~~MONTGOMERY~~ UNION ^{B.M.}

SS.

Personally appeared before me the above-named ~~Steven S. Carroll~~ ^{B.M.} ~~David B. Olsen~~ ^{B.M.} Malcolm Maccoss

to me known and known to me to be the person(s) who executed the foregoing instrument and acknowledged said instrument to be their free act and deed this 19th day of December, 2001.

Denise K Brown

Notary Public

DENISE K. BROWN
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 12/19/2005

COMMONWEALTH OF PENNSYLVANIA
~~STATE OF NEW JERSEY~~ ^{B.M.}

County of ~~UNION~~ MONTGOMERY ^{B.M.}

SS.

Personally appeared before me the above-named ~~Malcolm Maccoss~~ ^{B.M.} Steven S. Carroll David B. Olsen

to me known and known to me to be the person(s) who executed the foregoing instrument and acknowledged said instrument to be their free act and deed this 9th day of January, 2001-2002 ^{B.M.}

Brenda Myers

Notary Public

Notarial Seal
Brenda Myers, Notary Public
Upper Gwynedd Twp., Montgomery County
My Commission Expires Apr. 11, 2002

Member, Pennsylvania Association of Notaries

ASSIGNMENT AND AGREEMENT

For value received, we, Steven S. Carroll, Malcolm Maccoss, David B. Olsen

of 479 Robins Court, Yardley, PA 19067; 48 Rose Court, Freehold, NJ 07728; 1640 Quarry Road, Lansdale, PA 19446

hereby sell, assign and transfer to MERCK & CO., Inc., a corporation of the State of New Jersey, having an office at Lincoln Avenue, City of Rahway, State of New Jersey, and its successors, assigns and legal representatives, the entire right, title and interest, for all countries, in and to certain inventions relating to

NUCLEOSIDE DERIVATIVES AS INHIBITORS OF RNA-DEPENDENT RNA VIRAL POLYMERASE

described in an application for Letters Patent of the United States, executed by us on even date herewith; in provisional application(s) Serial No. 60/263,313 filed on 1/22/2001; Serial No. 60/282,069 filed on 4/6/2001; Serial No. 60/299,320 filed on 6/19/2001; Serial No. 60/344,528 filed on 10/25/2001 (if applicable), and all the rights and privileges, including any and all benefits under the International Convention for the Protection of Industrial Property under any and all Letters Patents which may be granted therefor in any country or region, and under any and all extensions, divisionals, reissues and continuations of said Letters Patents.

We request that any and all Patents for said inventions be issued to said assignee, its successor, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining Patents for said inventions in any and all countries and for vesting title thereto in said assignee, its successors, assigns and legal representatives or nominees.

We covenant with said assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

We hereby authorize our attorney, Philippe L. Durette, or an attorney with Power of Attorney in this application, of MERCK & CO., Inc., to insert **Serial No.**, and **Filing Date** of said application(s) when known.

Signed at West Point Pennsylvania, this 9th day of January, 2002 B.M.

Steven S. Carroll
Steven S. Carroll

David B. Olsen
David B. Olsen

JOINT Merck Case 20717YU.S. Serial No. 10/052,318Filing Date 1/18/2002

ASSIGNMENT AND AGREEMENT

Signed at Rahway, New Jersey this 19th day of December, 2001.Malcolm Maccoss

Malcolm Maccoss

STATE OF NEW JERSEY

~~COMMONWEALTH OF PENNSYLVANIA~~ B.M.County of ~~MONTGOMERY~~ UNION
B.M.

SS.

Personally appeared before me the above-named ~~Steven S. Carroll~~ B.M. ~~David B. Olsen~~ B.M. Malcolm Maccossto me known and known to me to be the person(s) who executed the foregoing instrument and acknowledged said instrument to be their free act and deed this 19th day of December, 2001.Denise K. Brown

Notary Public

DENISE K. BROWN
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 12/19/2005COMMONWEALTH OF PENNSYLVANIA
~~STATE OF NEW JERSEY~~ B.M.County of ~~UNION~~ MONTGOMERY
B.M.

SS.

Personally appeared before me the above-named ~~Malcolm Maccoss~~ B.M. Steven S. Carroll David B. Olsento me known and known to me to be the person(s) who executed the foregoing instrument and acknowledged said instrument to be their free act and deed this 9th day of January, 2001-2002
B.M.Brenda Myers

Notary Public

Notarial Seal
Brenda Myers, Notary Public
Upper Gwynedd Twp., Montgomery County
My Commission Expires Apr. 11, 2002

Member, Pennsylvania Association of Notaries

RECORDATION FORM COVER SHEET
PATENTS ONLY

TO THE DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE:
PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

1. Name(s) of Conveying party(ies):

Balkrishen Bhat, Neelima Bhat, Phillip Dan Cook, Anne B. Eldrup, Thazha P. Prakash, Marija Prhavc and Quanlai Song

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

2. Nature of conveyance:

- ☒ Assignment
☐ Merger
☐ Security Agreement
☐ Change of Name
☐ Other:



3. Name and address of receiving party(ies):

Name: ISIS Pharmaceuticals, Inc.

Internal Address: _____

Street Address: 2292 Faraday Avenue

City & State: Carlsbad, California

Zip/Postal Code: 92008

Execution Date: Jan 18, 2002

Additional name(s) & addresses attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s) are as follows:

(a) Patent Application No(s). 10/052,318, filed on January 18, 2002

and titled:

NUCLEOSIDE DERIVATIVES AS INHIBITORS OF RNA-DEPENDENT RNA VIRAL POLYMERASE

(b) If this document is being filed together with a new application, the execution date of the application is:

Additional numbers attached? ☐ Yes ☐ No

5. Name & address of party to whom correspondence concerning documents should be mailed:

Name: Philippe L. Durette

Internal Address: PATENT DEPARTMENT
MERCK & CO., INC.
P.O. BOX 2000 -- RY60-30

City & State: RAHWAY, N.J. Zip: 07065-0907

6. Total no. of applications & patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

☐ Enclosed

☒ The Director is hereby authorized to charge **deposit account number 13-2755** for any fees which may be required or to credit any overpayment.

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8. Statement and signature:

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Philippe L. Durette Reg. No. 35,125

Name of Person Signing

Signature

Dec 2, 2003

Date

Total number of pages including cover sheet, attachments, and documents: 10

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Name (Print/Type)	Denise K. Brown	
Signature		Date 12/2/2003

P&T OFFICE ACKNOWLEDGEMENT

ATTORNEY P. L. Durette		DATE 12-2-2003
CASE NUMBER/ 20717Y	SERIAL NUMBER 10/052,318	
DATE FILED January 18, 2002		
APPLICANT Bhat, et al.		
EXPRESS MAIL NO.		

The Patent & Trademark Office acknowledges, and has stamped hereon, the date of the receipt of the items checked below:

- ☐ AMENDMENT
- ☐ APPEAL AND FEE
- ☒ ASSIGNMENT *Recorded Form - ISIS*
- ☐ BRIEF
- ☐ CERTIFICATE OF CORRECTION
- ☐ FINAL FEE
- ☐ LETTER
- ☐ REQUEST FOR F.F. LICENSE
- ☐ INFORMATION DISCLOSURE STATEMENT
- ☐ PTO 1449 & REFERENCES
- ☐ PETITION FOR EXTENSION OF TIME & FEE
- ☐ INVITATION TO CORRECT
- ☐ DEMAND-CHAPTER II & FEE SHEET

ASSIGNMENT

WHEREAS, we, **Balkrishen Bhat of Carlsbad, CA; Neelima Bhat of Carlsbad, CA; Phillip Dan Cook of Fallbrook, CA; Anne B. Eldrup of Encinitas, CA; Thazha P. Prakash of Carlsbad, CA; Marija Prhave of Carlsbad, CA; and Quanlai Song of San Marcos, CA**, have invented a certain invention entitled **Nucleoside Derivatives as Inhibitors of RNA-Dependent RNA Viral Polymerase**, for which we have made an application for Letters Patent of the United States; and

WHEREAS, ISIS Pharmaceuticals, Inc. hereinafter referred to as the assignee, of 2292 Faraday Avenue, Carlsbad CA, a corporation of Delaware, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

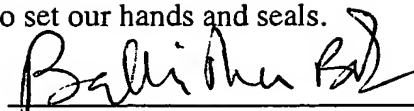
NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by

us had this assignment, sale and transfer not been made.

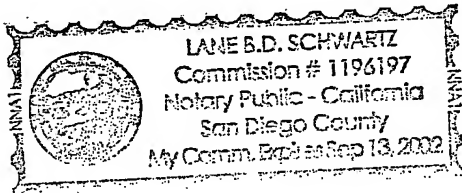
AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

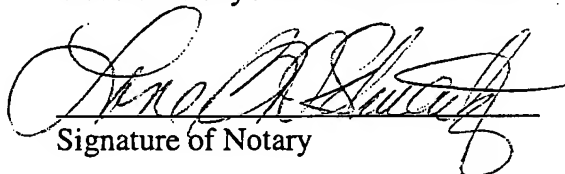
Dated: 01/18 2002
BALKRISHEN BHATState of California)
) ss.
County of San Diego)

On this 18th day of January, 2002, before me, the undersigned, a Notary Public for the state, personally appeared **BALKRISHEN BHAT**, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.



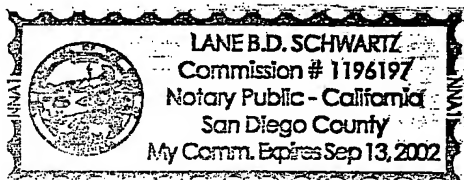
[SEAL]

WITNESS my hand and official seal.


Signature of Notary

Dated: 1/18 2002Neelima
NEELIMA BHATState of California)
County of San Diego) ss.

On this 18th day of January, 2002, before me, the undersigned, a Notary Public for the state, personally appeared **NEELIMA BHAT**, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.



[SEAL]

WITNESS my hand and official seal.

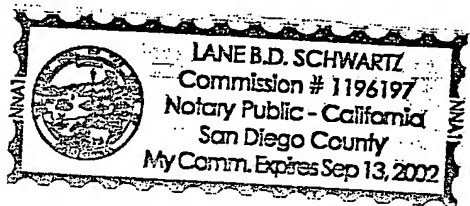
Lane B.D. Schwartz
Signature of Notary

Dated: 1-18 2002


PHILLIP DAN COOK


State of California)
) ss.
County of San Diego)

On this 18th day of January, 2002 before me, the undersigned, a Notary Public for the state, personally appeared **PHILLIP DAN COOK**, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.



[SEAL]

WITNESS my hand and official seal.

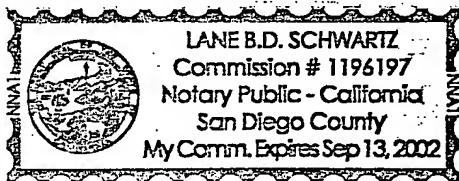

Signature of Notary

Dated: January 18 2002

Anne Eldrup
ANNE B. ELDRUP

State of California)
) ss.
County of San Diego)

On this 18th day of January, 2002, before me, the undersigned, a Notary Public for the state, personally appeared **ANNE B. ELDRUP**, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.



[SEAL]

WITNESS my hand and official seal.

Lane B.D. Schwartz
Signature of Notary

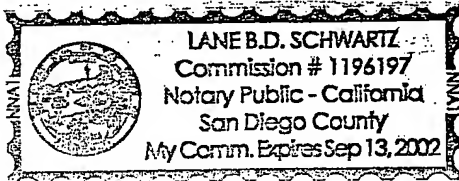
Dated: 1-18- 2002



THAZHA P. PRAKASH

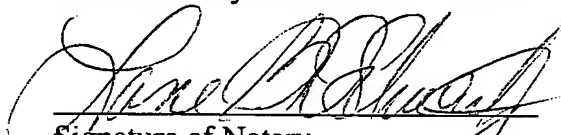
State of California)
) ss.
County of San Diego)

On this 18th day of January, 2002, before me, the undersigned, a Notary Public for the state, personally appeared **THAZHA P. PRAKASH**, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.



[SEAL]

WITNESS my hand and official seal.

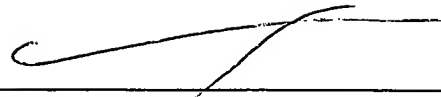


Signature of Notary

Case 20717Y

PATENT

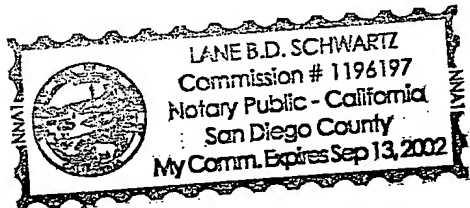
Dated: 1 / 13 2002



MARIJA PRHAVC

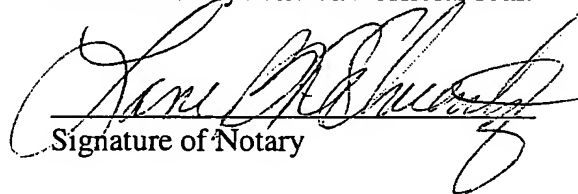
State of California)
) ss.
County of San Diego)

On this 1st day of January, 2002, before me, the undersigned, a Notary Public for the state, personally appeared **MARIJA PRHAVC**, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.



[SEAL]

WITNESS my hand and official seal.



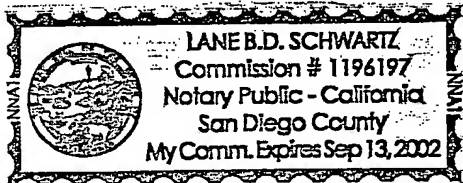
Signature of Notary

Dated: 01/18/02 20__

Gory Quanlai
QUANLAI SONG

State of California)
) ss.
County of San Diego)

On this 18th day of January, 2002, before me, the undersigned, a Notary Public for the state, personally appeared **QUANLAI SONG**, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.



[SEAL]

WITNESS my hand and official seal.

[Signature]
Signature of Notary